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CLAIMS: The following is a listing of all claims in the application with their status and the text of all active claims.

1.(CURRENTLY AMENDED) An electrical connector for connecting an electrical apparatus to a high frequency electrical conductor comprising:

a connector body having a passageway therethrough extending from a first end to a second end thereof;

an electrically conductive signal carrying element disposed in said passageway and extending between said first end of said connector body ~~to~~ and said second end of said ~~second end of said~~ connector body to carry a high frequency signal from said first ~~end of~~ said connector ~~body end to~~ and said second ~~end of said~~ connector body end;

said signal carrying element comprising a strip of flexible dielectric material having a first trace and a second trace, each formed upon a surface of said strip of flexible dielectric material with said strip of flexible dielectric material maintaining a constant separation between said first trace and said second trace from said first end of said connector body to said second end of said connector body.

2.(ORIGINAL) The electrical connector of claim 1, wherein said first trace is formed on one surface of said strip of dielectric material and said second trace is formed on the opposite surface of said strip of dielectric material

Cancel claim 3.

4.(ORIGINAL) The electrical connector of claim 2 wherein the thickness of said dielectric material separating said first trace and said second trace is selected to produce a

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predetermined impedance to match the impedance of a high frequency electrical conductor connected to said signal carrying element.

5.(ORIGINAL) The electrical conductor of claim 4 wherein said high frequency electrical conductor is a coaxial cable.

6.(ORIGINAL) The electrical connector of claim 4 wherein said first trace is a signal trace and said second trace is a reference trace.

7.(ORIGINAL) The electrical connector of claim 6 wherein said reference trace is a ground trace.

8.(ORIGINAL) The electrical connector of claim 6 where said signal trace is a true phase of a differential signal and said reference trace is a complimentary phase of the differential signal.

9.(ORIGINAL) The electrical connector of claim 2 wherein said first trace and said second trace are of equal width and thickness and aligned with one another.

10.(CURRENTLY AMENDED) An electrical connector for interconnecting a plurality of high frequency signals from a first end of said connector to a second end of said connector comprising:

a connector body of rigid dielectric material having ~~plural~~ a plurality of passageways each extending from said first connector end to said second connector end; and

a plurality of conductor members each respectively positioned in one of said plurality of passageways and extending between said first connector end and said second connector end;

each said conductor member comprising a continuous strip of uniform thickness flexible dielectric material extending from said first connector end to said second connector end and having first and second conductive traces positioned respectively ~~extending longitudinally~~ along, formed on opposite surfaces, and separated by the thickness of said strip of flexible dielectric material which extend from said first connector end to said second connector end.

11.(ORIGINAL) The electrical connector of claim 10 wherein said first conductive trace is a signal trace and said second conductive trace is a reference trace.

12.(ORIGINAL) The electrical connector of claim 11 wherein said connector interconnects high frequency circuits and each of said conductor members is designed with the widths of said signal trace and said reference trace and the thickness of the dielectric separating said signal and reference traces selected to produce an impedance that matches the impedance of a high frequency circuit connected thereto.

13.(ORIGINAL) The electrical connector of claim 12 wherein said reference traces are ground traces.

14.(ORIGINAL) The electrical connector of claim 12 wherein each said signal trace is a true phase of a differential signal and each said reference trace is a complimentary phase of the associated differential signal.

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15.(ORIGINAL) The electrical connector of claim 12 wherein at least one of said plurality of conductor members has an impedance differing from the impedance of others of said plurality of conductor members to match high frequency circuits having differing impedances.